



## LISTING REPORT FOR CLASS A ROOF COVERING ASSEMBLY

**WEDGE-IT CO.**  
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### Wedge-It ASTM E108 Class A Roofing Assembly

#### CSI Section:

07 22 00 Roof and Deck Insulation

07 32 00 Roof Tiles

### 1.0 SCOPE OF LISTING

#### 1.1 Compliance with the following Standards:

- ASTM E108 – Standard Test Methods for Fire Tests of Roof Coverings

#### 1.2 Properties assessed:

- Fire Classification of Roof Assembly

### 2.0 FINDINGS

#### 2.1 Product Information:

**2.1.1 Wedge-It Insulation board:** Wedge-It insulation boards are cut to form tapered cross-sections tapering from a maximum of 2½ inches (63.5 mm) thick to a minimum of 1½ inches (38.1 mm) thick. Wedge-It insulation boards shall be nominally 10 inches to 12½ inches (254 mm) wide by 48 inches (1219 mm) long. Wedge-It boards shall be cut from Insulfoam Expanded Polystyrene EPS boards complying with ASTM C578 as Types I, VIII, II or IX with nominal densities of 1.0 pcf (16.0 kg/m³), 1.25 pcf (20.0 kg/m³), 1.5 pcf (24.0 kg/m³) and 2.0 pcf (32.0 kg/m³) respectively, with a flame spread index of not more than 25 and a smoke-developed index of not more than 450 when tested in accordance with ASTM E84. The boards shall have a product listing by an approved agency.

**2.1.2 Underlayment:** Underlayment shall be minimum Type II, No. 30 asphalt felt, complying with ASTM D226.

**2.1.3 Roof Tile:** Roof tile shall be Low, Medium or High Profile concrete roofing tiles complying with ASTM C1492 with a nominal length of 17 inches (432 mm), width of 12½ inches (318 mm) and weight of 10 pounds (4.5 kg) per tile. Roof tiles shall be supported over nominal 2x2 inch wood battens spaced to support the roof tiles.

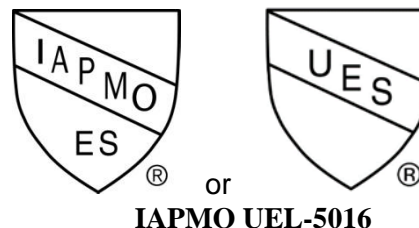
**2.2 Class A Roof Assembly:** The assembly described in Section 3.0 of this report complies as a Class A roof assembly when tested in accordance with ASTM E108.

### 3.0 DESIGN AND INSTALLATION

The Class A roof assembly shall consist of Low, Medium or High-Profile concrete roofing tiles as described in Section 2.1.3 of this report supported over nominal 2x2 inch wood battens. Wedge-It insulation boards as described in Section 2.1.1 of this report shall be installed between the wood battens with a ½ inch (12.7 mm) gap between Wedge-It boards. Roof tile shall be installed and attached in accordance with the roof tile manufacturer’s current and approved evaluation report. The assembly shall be supported by minimum nominal ½ inch thick (12.7 mm) plywood sheathing complying with the building code. Underlayment as described in Section 2.1.2 of this report shall be installed over the plywood sheathing.

### 4.0 IDENTIFICATION

Packages of Wedge-It EPS insulation boards shall be identified by the Wedge-It Co. name, product name, manufacturing address and listing report number (UEL-5016). The identification shall also include the IAPMO Uniform Evaluation Service Mark of Conformity. Either Mark of Conformity may be used as shown below:



*Brian Gerber*

**Brian Gerber, P.E., S.E.**  
Vice President, Technical Operations  
Uniform Evaluation Service

*Richard Beck*

**Richard Beck, PE, CBO, MCP**  
Vice President, Uniform Evaluation Service

*Russ Chaney*

**GP Russ Chaney**  
CEO, The IAPMO Group

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email us at [info@uniform-es.org](mailto:info@uniform-es.org)

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

